

**AMENDMENTS TO THE CLAIMS:**

**Please amend the claims as follows:**

1. (Currently Amended) An optoelectronic hybrid integrated module comprising:

an optical device for converting one of an optical signal into an electric signal and an electrical signal into an optical signal vice-versa;

an input/output IC for drive-controlling the optical device; and

a transparent base material having electric wiring and light permeability[[:]] ,

wherein the optical device and the input/output IC are flip-chip mounted on a surface of the transparent base material,

wherein light inputting/outputting between the optical device and an area outside of the integrated module is carried out due to the light permeability of the transparent base material, and

wherein the electric wiring connects the optical device and the input/output IC so as to transfer an electric signal between them, and the electric wiring being positioned on a surface of the transparent base material opposite to [[a]] the surface where the optical device is mounted, the electric wiring being provided as a ground electrode and serving serves as an electromagnetic shield for the optical device and the input/output IC.

2. (Canceled)

3. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the optical device ~~is configured as~~ comprises a light emitting device which converts

an electric signal into an optical signal and outputs it, and the input/output IC ~~is configured as~~ comprises a driver IC which outputs an electric signal to the optical device.

4. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the optical device ~~is configured as~~ comprises a light receiving device which converts an optical signal into an electric signal, and the input/output IC ~~is configured as~~ comprises an electric amplifier IC which amplifies an electric signal from the light receiving device.

5. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the transparent base material ~~is formed of~~ comprises a transparent plate transmitting a light, and the transparent plate ~~is made of~~ comprises a material having high permeability to a wavelength of the optical device.

6. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the transparent base material ~~is formed of~~ comprises a flexible sheet transmitting a light, and the flexible sheet ~~is made of~~ comprises a material having high permeability to a wavelength of the optical device.

7. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the transparent base material includes a light coupling means for improving a light coupling efficiency at a position facing the optical device.

8. (Original) The optoelectronic hybrid integrated module, as claimed in claim 7, wherein the light coupling means is integrally formed with the transparent base material.

9. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 7, wherein the transparent base material includes an optical axis converter which converts a direction of ~~the~~ an optical axis with reference to the light coupling means.

10. (Currently Amended) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the optical device and the input/output IC ~~have~~ comprise an interposer which is comprises a holder and a heat spreader.

11. (Original) The optoelectronic hybrid integrated module, as claimed in claim 1, wherein the transparent base material is fixed to a holding frame within which electric wiring is incorporated.

12. (Currently Amended) A light input/output apparatus ~~comprising~~ comprising:

an optoelectronic hybrid integrated module and a logic LSI, wherein the optoelectronic hybrid integrated module includes:

an optical device for converting one of an optical signal into an electric signal and an electric signal into an optical signal ~~vice versa~~;

an input/output IC for drive-controlling the optical device; and

a transparent base material having electric wiring and light permeability;

wherein the optical device and the input/output IC are flip-chip mounted on a surface of the transparent base material,

wherein light inputting/outputting between the optical device and an outside of the module is carried out due to the light permeability of the transparent base material,

wherein the logic LSI controls an electric signal input into or output from the optoelectronic hybrid integrated module, and

wherein the optoelectronic hybrid integrated module and the logic LSI are mounted on a same substrate.

13. (New) The optoelectronic hybrid integrated circuit according to claim 1, wherein the transparent base material comprises a light inputting/outputting portion.

14. (New) The optoelectronic hybrid integrated circuit according to claim 13, wherein the optical device is positioned directly under the light inputting/outputting portion.

15. (New) The optoelectronic hybrid integrated circuit according to claim 1, wherein the optical device is sealed to the transparent base material devoid of an air gap.

16. (New) The optoelectronic hybrid integrated circuit according to claim 1, wherein only the optical device is sealed to the transparent base material devoid of an air gap.

17. (New) The optoelectronic hybrid integrated circuit according to claim 13, wherein the light inputting/outputting portion comprises a light coupling material.

18. (New) The optoelectronic hybrid integrated circuit according to claim 13, wherein the light inputting/outputting portion comprises a convex lens formed on the transparent base material.

19. (New) The optoelectronic hybrid integrated circuit according to claim 13, wherein the light inputting/outputting portion comprises a light coupling unit.

20. (New) The optoelectronic hybrid integrated circuit according to claim 19, wherein the light coupling unit is integrally formed with the transparent base material.
21. (New) The optoelectronic hybrid integrated circuit according to claim 12, wherein the electric wiring connects the optical device and the input/output IC so as to transfer an electric signal between them, the electric wiring being positioned on a surface of the transparent base material opposite to the surface where the optical device is mounted.
22. (New) The optoelectronic hybrid integrated circuit according to claim 12, wherein, the electric wiring is provided as a ground electrode and serves as an electromagnetic shield for the optical device and the input/output IC.
23. (New) An optoelectronic hybrid integrated module comprising:  
an optical device for converting at least one of an optical signal into an electric signal  
an electric signal into an optical signal;  
a transparent base material comprising a light inputting/outputting portion,  
wherein light inputting/outputting between the optical device and an outside of the module is carried out through said light inputting/outputting portion.